

PATENT
Express Mail No. EL401164528US
Attorney Docket No. 4018.08

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:)
)
Michael J. Freeman, Kevin M. Liga,)
and Frank P. Deo)
)
Serial No.: 09/335,372)
)
Filed: [CPA filed herewith])
)
For: COMPRESSED DIGITAL-DATA)
SEAMLESS VIDEO SWITCHING)
SYSTEM)

Group Art Unit 2711

Examiner: [Not assigned]

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INFORMATION DISCLOSURE STATEMENT
Under 37 C.F.R. 1.98(d)

Box CPA
Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The Examiner is requested to consider the references noted on the enclosed Form PTO-1449 during examination of the above-identified patent application. These references are submitted for the Examiner's consideration and are submitted pursuant to the Applicants' duty of disclosure under 37 C.F.R. § 1.56.

Copies of all the cited documents, except those indicated with an asterisk, have been previously furnished to the Office in the following prior applications, for which this application

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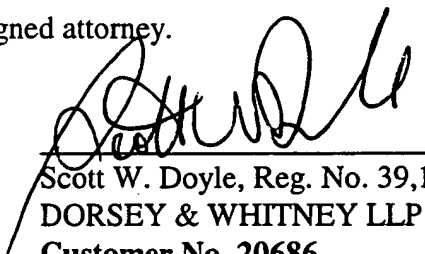
claims priority: Serial No. 09/154,069 filed 9/16/98; Serial No. 08/887,314 filed 7/3/97 of which this application is a continuation-in-part; Serial No. 08/443,607 filed 5/18/95 (now Patent No. 5,724,091 granted 3/3/98); Serial No. 08/166,608 filed 12/13/93; and Serial No. 07/797,298 filed 11/25/91. Only copies of the documents not previously cited are provided herewith.

Pursuant to 37 C.F.R. § 1.97, no fees are due with respect to this filing. However, should any fees be deemed necessary, such fees may be charged to Deposit Account No. 04-1415.

A duplicate copy of this disclosure statement is enclosed for use as may be appropriate.

Should the examiner have any questions concerning the relevance of any patent cited in this disclosure, please contact the undersigned attorney.

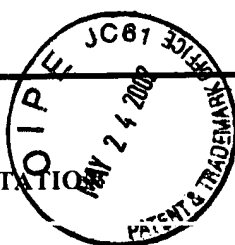
Date: December 21, 1999



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Denver, Colorado 80202
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Attorney for Applicant

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)



Docket Num (Serial)

4018.08

Application Number

09/335,372

Applicant(s)

ACTV, Inc.

Filing Date

June 17, 1999

Group Art Unit

2711

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	Re. 32,776	11/1988	Saylor			
	AB	Re. 34,340	8/1993	Freeman			
	AC	2,612,553	9/1952	Homrighous			
	AD	2,777,901	1/1957	Dostert			
	AE	2,826,828	3/1958	Hamilton			
	AF	2,908,767	10/1959	Fritzinger			
	AG	2,921,385	1/1960	Hamilton			
	AH	3,008,000	11/1961	Morchand			
	AI	3,020,360	2/1962	Gratian et al.			
	AJ	3,194,895	7/1965	Treadwell			
	AK	3,221,098	11/1965	Feldman et al.			

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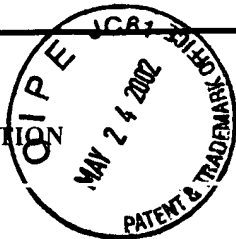
FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	16314	10/1980	European Pat. Off.				
	AM	128481	12/1984	European Pat. Off.				
	AN	314572	5/1989	European Pat. Off.				
	AO	994233	6/1965	Germany				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AP	Tsuruta et al., A Knowledge Based Interactive Train Scheduling System Aiming at Large Scale Complex Planning Expert Systems, International Workshop on Artificial Intelligence for Industrial Applications, 1988, pp. 490-495.
AQ	Harless; Interactive Video Disc Case Studies for Medical Education, Oct. 1986.
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DATE CONSIDERED	
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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA	3,245,157	4/1966	Laviana			
	BB	3,255,536	6/1966	Livingston			
	BC	3,273,260	9/1966	Walker			
	BD	3,284,923	11/1966	Leslie			
	BE	3,343,280	9/1967	Tonai			
	BF	3,366,731	1/1968	Wallerstein			
	BG	3,387,084	6/1968	Hine et al.			
	BH	3,440,342	4/1969	Beltrami			
	BI	3,477,144	11/1969	Stillit			
	BJ	3,484,950	12/1969	Serrell et al.			
	BK	3485,946	12/1969	Jackson et al.			

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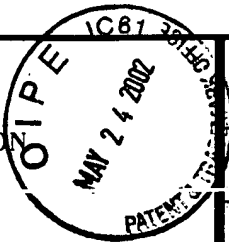
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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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	BL	4207885	7/1992	Japan				
	BM	6165170	6/1994	Japan				
	BN	8102961	10/1981	WIPO				
	BO	9403851	2/1994	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BP	Bock; Videodisk Standards: A Software View of the Technology, May 1983.
BQ	Campbell, Optimal Decision Making in a Business Simulation, System Sciences, 1989 Annual Hawaii International Conference, vol. III, pp. 822-831.
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	CA	3,538,621	11/1970	Mayeda			
	CB	3,546,791	12/1970	Koos et al.			
	CC	3,566,482	3/1971	Morchand			
	CD	3,575,861	4/1971	Pratt et al.			
	CE	3,602,582	8/1971	Torricelli			
	CF	3,623,238	11/1971	Laplume et al.			
	CG	3,643,217	2/1972	Morphew et al.			
	CH	3,665,615	5/1972	Laplume			
	CI	3,708,891	1/1973	Rosov			
	CJ	3,725,571	4/1973	Justice			
	CK	3,730,980	5/1973	Kirk Jr.			

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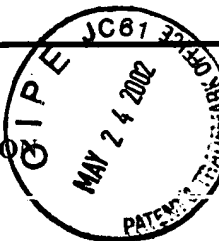
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							YES	NO
	*	WO 93 11617	6/1993	WIPO				
	*	WO 93 22877	11/1993	WIPO				
	*	WO 96 05699	2/1996	WIPO				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

CL	F. Dawson; Compression on the Fast Track, pp. 22-30, Cablevision, Apr. 22, 1991.
CM	Y. Gault; Turning Cold Box into Interactive TV, p. 17, Crain's New York Business, Jul. 15, 1991.

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	DA	3,757,225	9/1973	Ulicki			
	DB	3,763,377	10/1973	Goodson			
	DC	3,774,316	11/1973	Meier			
	DD	3,814,841	6/1974	Ulicki			
	DE	3,825,674	7/1974	Justice			
	DF	3,833,760	9/1974	Tickle			
	DG	3,849,594	11/1974	Justice			
	DH	3,857,999	12/1974	Justice			
	DI	3,860,745	1/1975	Takada			
	DJ	3,902,007	8/1975	Justice			
	DK	3,916,092	10/1975	Justice			

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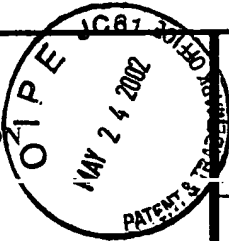
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DL	G. Gilder; Now or Never, pp. 188-189, Forbes, Oct. 14, 1991.
DM	G. Kim; First All-Digital HDTV Developed by Video Cipher, p. 35, Multichannel News, Jun. 11, 1990.
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	EA	3,936,595	2/1976	Yanagimachi et al.			
	EB	3,947,972	4/1976	Freeman			
	EC	3,988,528	10/1976	Yanagimachi et al.			
	ED	3,991,266	11/1976	Baer			
	EE	4,034,990	7/1977	Baer			
	EF	4,040,088	8/1977	Hanan			
	EG	4,044,380	8/1977	Justice et al.			
	EH	4,078,316	3/1978	Freeman			
	EI	4,199,781	4/1980	Doumit			
	EJ	4,245,245	1/1981	Matsumoto			
	EK	4,264,924	4/1981	Freeman			

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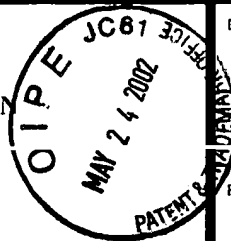
EL	G. Kim; ATC: Technical Tidal Wave to Engulf Cable Industry, pp. 33-34, Multichannel News, Aug. 13, 1990.
EM	G. Kim; Jerrold Offers Cable Digital Compression, p. 6, Multichannel News, Mar. 11, 1991.

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	FA	4,264,925	4/1981	Freeman et al.			
	FB	4,290,142	9/1981	Schnee et al.			
	FC	4,292,649	9/1981	Macheboeuf et al.			
	FD	4,305,131	12/1981	Best			
	FE	4,331,974	5/1982	Cogswell et al.			
	FF	4,333,152	6/1982	Best			
	FG	4,361,730	11/1982	Barber et al.			
	FH	4,381,522	4/1983	Lambert			
	FI	4,399,329	8/1983	Wharton			
	FJ	4,422,105	12/1983	Ridesch et al.			
	FK	4,439,784	3/1984	Furukawa et al.			

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FL	G. Kim; Test Equipment for Digital Still a Puzzle, p. 24, Multichannel News, May 27, 1991.
FM	Martial et al., An Interactive Planner for Open Systems, Proceedings of the 4 th Conference on Artificial Intelligence, March 1988, pp. 293-298.

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A circular black ink stamp from the Intellectual Property Office (IPO). The text "IPO" is on the left, "JC 61" is at the top, and "PATENT & TRADEMARK OFFICE" is on the right. The date "MAY 24 2002" is stamped diagonally across the center.

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*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	GA	4,445,137	4/1984	Panofsky			
	GB	4,445,187	4/1984	Best			
	GC	4,507,680	3/1985	Freeman			
	GD	4,516,156	5/1985	Fabris et al.			
	GE	4,530,008	7/1985	McVoy			
	GF	4,536,791	8/1985	Campbell et al.			
	GG	4,546,382	10/1985	McKenna et al.			
	GH	4,555,730	11/1985	Briggs			
	GI	4,569,026	2/1986	Best			
	GJ	4,571,640	2/1986	Baer			
	GK	4,573,072	2/1986	Freeman			

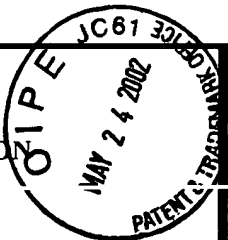
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[illegible]

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	GL	R. Powell; Digitizing TV Into Obsolescence, New York Times, Oct. 20, 1991.
	GM	H.F. Water, et al; Talking Back to the Tube, pp. 56-57, Newsweek, Dec. 3, 1990.
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	HA	4,574,305	3/1986	Campbell et al.			
	HB	4,591,248	5/1986	Freeman			
	HC	4,599,611	7/1986	Bowker et al.			
	HD	4,602,279	7/1986	Freeman			
	HE	4,616,261	10/1986	Crawford et al.			
	HF	4,635,132	1/1987	Nakamura			
	HG	4,644,515	2/1987	Allebest et al.			
	HH	4,647,980	3/1987	Steventon et al.			
	HI	4,665,431	5/1987	Cooper			
	HJ	4,694,490	9/1987	Harvey et al.			
	HK	4,701,896	10/1987	Allebest et al.			

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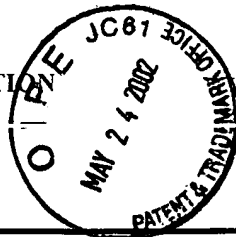
HL	Will it Revolutionize HDTV?, pp. 33-34, Broadcasting, Jun. 4, 1990.
HM	Video Storage in Digital Transmission, pp. 1-6, Specs Technology, Cable Television Laboratories, vol. 3, No. 7, 1991.

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	IA	4,704,725	11/1987	Harvey et al.			
	IB	4,733,301	3/1988	Wright, Jr.			
	IC	4,734,764	3/1988	Pocock et al.			
	ID	4,750,036	6/1988	Martinez			
	IE	4,763,317	8/1988	Lehman et al.			
	IF	4,768,087	8/1988	Taub et al.			
	IG	4,777,529	10/1988	Schultz			
	IH	4,780,757	10/1988	Bryer et al.			
	II	4,780,758	10/1988	Lin et al.			
	IJ	4,785,349	11/1988	Keith et al.			
	IK	4,786,967	11/1988	Smith, III, et al.			

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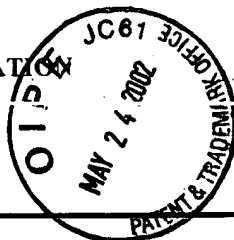
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*	Yu, P.S. et al., "Design and Analysis of a Look-Ahead Scheduling Scheme to Support Pause-Resume for Video-on-Demand Applications." Multimedia Systems, vol. 3, no. 4, 1 Jan. 1995, pp. 137-149, XP000576898.
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	JA	4,807,031	2/1989	Broughton et al.			
	JB	4,816,905	3/1989	Tweedy et al.			
	JC	4,821,101	4/1989	Short			
	JD	4,839,743	6/1989	Best et al.			
	JE	4,846,693	7/1989	Baer			
	JF	4,847,690	7/1989	Perkins			
	JG	4,847,698	7/1989	Freeman			
	JH	4,847,699	7/1989	Freeman			
	JI	4,847,700	7/1989	Freeman			
	JJ	4,855,827	8/1989	Best			
	JK	4,862,268	8/1989	Campbell et al.			

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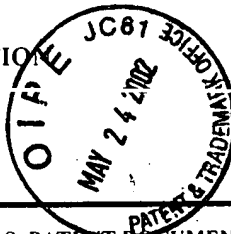
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	KA	4,870,591	9/1989	Cicciarelli et al.			
	KB	4,875,096	10/1989	Baer et al.			
	KC	4,876,592	10/1989	Von Kohorn			
	KD	4,884,974	12/1989	DeSmet			
	KE	4,894,789	1/1990	Yee			
	KF	4,905,094	2/1990	Pocock et al.			
	KG	4,916,633	4/1990	Tychonievich et al.			
	KH	4,918,516	4/1990	Freeman			
	KI	4,918,620	4/1990	Ulug			
	KJ	4,924,303	5/1990	Brandon et al.			
	KK	4,926,255	5/1990	Von Kohorn			

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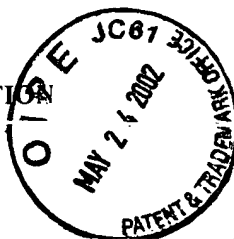
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	LA	4,930,019	5/1990	Chu			
	LB	4,941,040	7/1990	Pocock et al.			
	LC	4,949,170	8/1990	Yanagidaira et al.			
	LD	4,965,825	10/1990	Harvet et al.			
	LE	4,967,368	10/1990	Bolling et al.			
	LF	4,972,328	11/1990	Wu et al.			
	LG	4,975,771	12/1990	Kassatly			
	LH	4,987,486	1/1991	Johnson et al.			
	LI	4,988,111	1/1991	Gerlitz et al.			
	LJ	4,989,233	1/1991	Schahowsky et al.			
	LK	4,989,234	1/1991	Schahowsky et al.			

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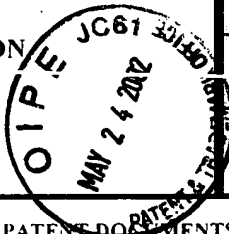
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

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Docket Num. (optional) 4018.08	Application Number 09/335,372
Applicant(s) ACTV, Inc.	
Filing Date June 17, 1999	Group Art Unit 2711

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	MA	4,991,011	2/1991	Johnson et al.			
	MB	4,994,908	2/1991	Kuban et al.			
	MC	5,001,554	3/1991	Johnson et al.			
	MD	5,010,400	4/1991	Oto			
	ME	5,010,500	4/1991	Makkuni et al.			
	MF	5,014,125	5/1991	Pocock et al.			
	MG	5,023,707	6/1991	Briggs			
	MH	5,033,969	7/1991	Kamimura			
	MI	5,034,807	7/1991	Von Kohorn			
	MJ	5,043,891	8/1991	Goldstein et al.			
	MK	5,051,822	9/1991	Rhoades			

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	NA	5,053,883	10/1991	Johnson			
	NB	5,055,924	10/1991	Skutta			
	NC	5,057,915	10/1991	Von Kohorn			
	ND	5,077,607	12/1991	Johnson et al.			
	NE	5,090,708	2/1992	Gerlitz et al.			
	NF	5,093,718	3/1992	Hoarty et al.			
	NG	5,109,414	4/1992	Harvey et al.			
	NH	5,109,482	4/1992	Bohrman			
	NI	5,132,992	7/1992	Yurt et al.			
	NJ	5,133,079	7/1992	Gallantyne et al.			
	NK	5,157,491	10/1992	Kassatly			

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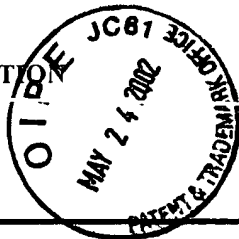
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	OA	5,174,759	12/1992	Preston et al.			
	OB	5,176,520	1/1993	Hamilton			
	OC	5,177,604	1/1993	Martinez			
	OD	5,181,107	1/1993	Rhoades			
	OE	5,210,611	5/1993	Tee et al.			
	OF	5,220,420	6/1993	Hoarty et al.			
	OG	5,227,874	7/1993	Von Kohorn			
	OH	5,236,199	8/1993	Thompson, Jr.			
	OI	5,239,463	8/1993	Blair et al.			
	OJ	5,239,617	8/1993	Gardner et al.			
	OK	5,247,347	9/1993	Lieeteral et al.			

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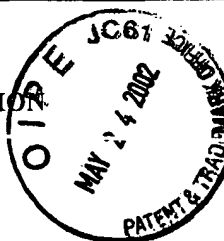
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	PA	5,261,820	11/1993	Slye et al.			
	PB	5,318,450	6/1994	Carver			
	PC	5,340,317	8/1994	Freeman			
	PD	5,388,197	2/1995	Rayner			
	PE	5,404,393	4/1995	Remillard			
	PF	5,405,152	4/1995	Katanics et al.			
	PG	5,442,389	8/1995	Blahut et al.			
	PH	5,454,722	10/1995	Holland et al.			
	PI	5,455,910	10/1995	Johnson et al.			
	PJ	5,467,288	11/1995	Fasciano et al.			
	PK	5,488,411	1/1996	Lewis et al.			

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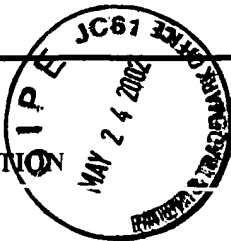
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	QA	5,526,478	6/1996	Russell, Jr. et al.			
	QB	5,537,141	7/1996	Harper et al.			
	QC	5,541,662	7/1996	Adams et al.			
	QD	5,557,724	9/1996	Sampat et al.			
	QE	5,585,858	12/1996	Harper et al.			
	QF	5,594,492	1/1997	O'Callaghan			
	QG	5,594,935	1/1997	Reber et al.			
	QH	5,724,091	3/1998	Freeman et al.			
	*	5,357,276	10/1994	Hayashi et al.			
	*	5,365,346	11/1994	Abumi			

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